

FIG. 3A

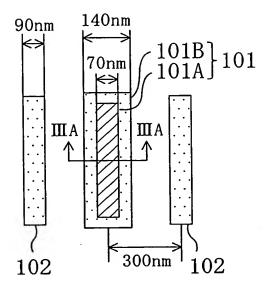


FIG. 3B

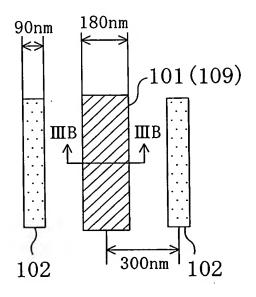


FIG. 3C

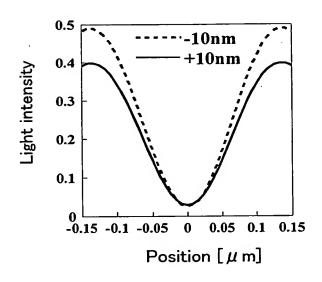


FIG. 3D

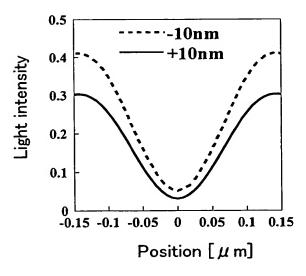
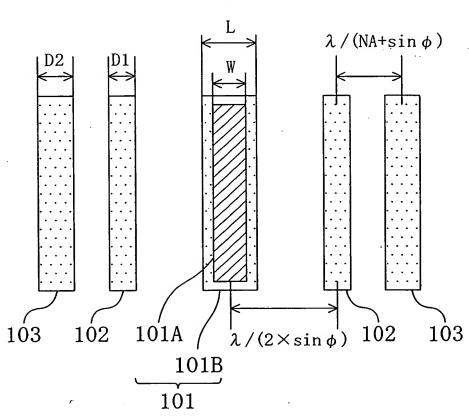
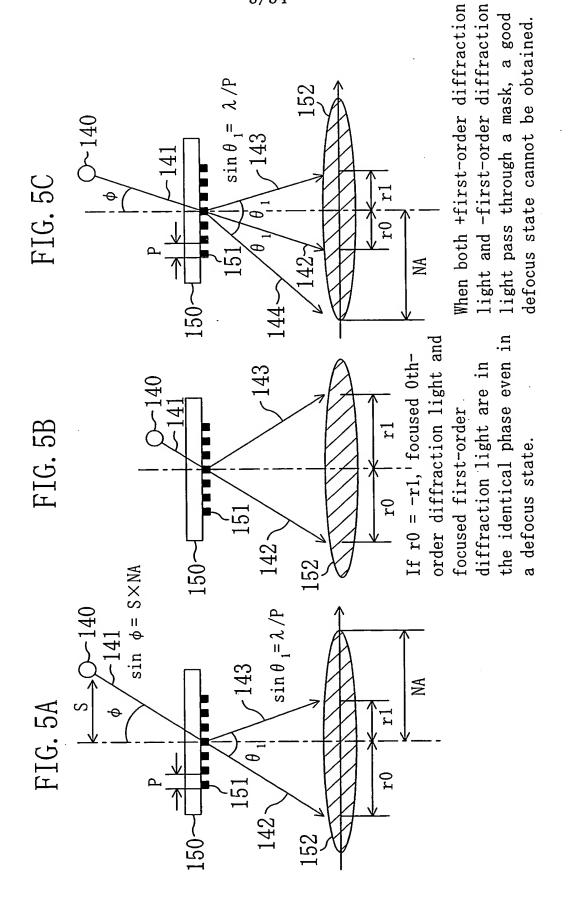
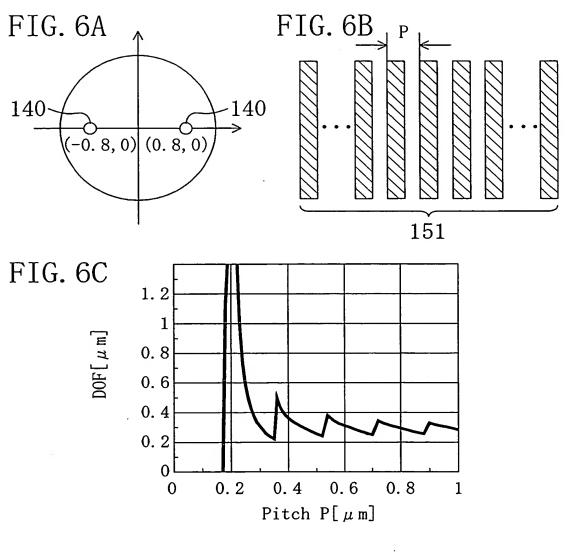


FIG. 4







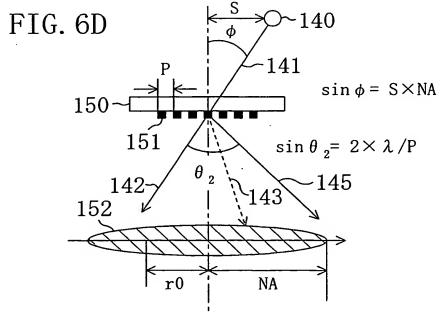


FIG. 7A

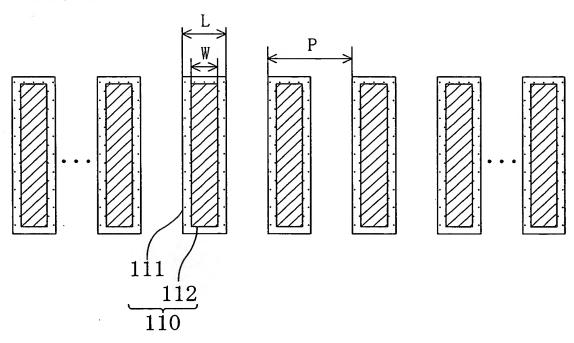


FIG. 7B

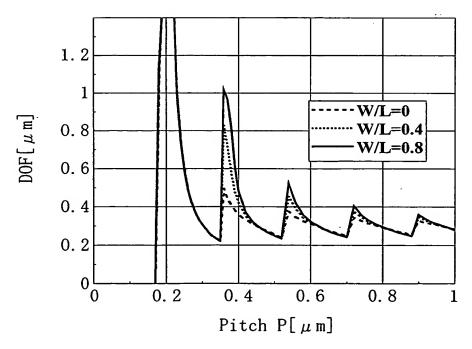


FIG. 8A

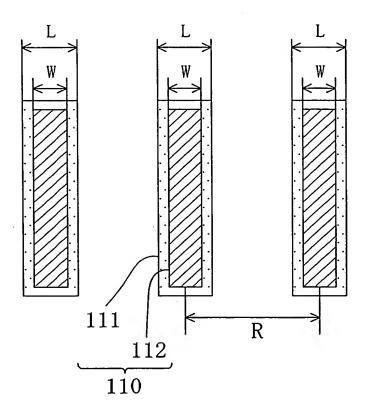
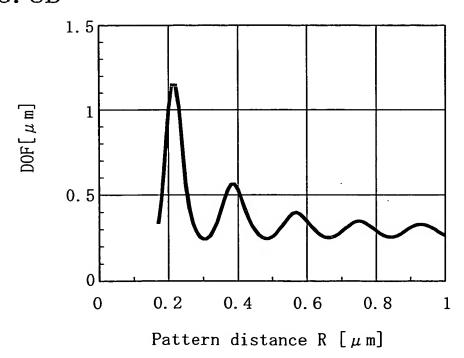


FIG. 8B



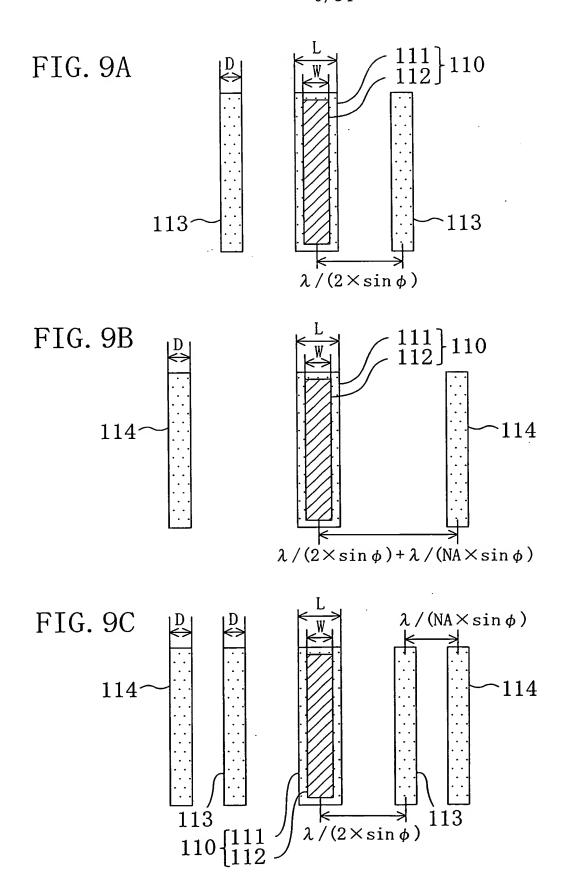


FIG. 10B

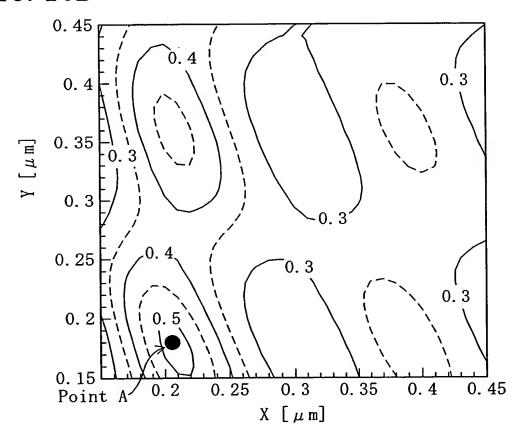


FIG. 11A

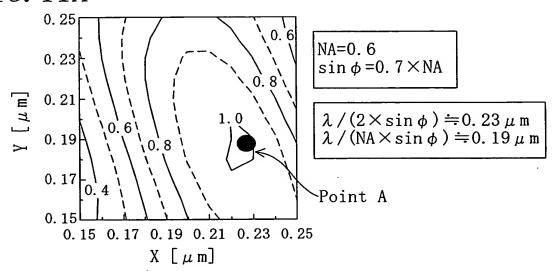


FIG. 11B

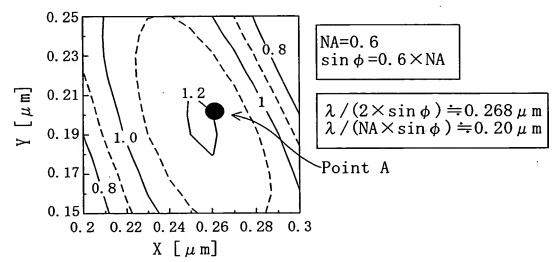
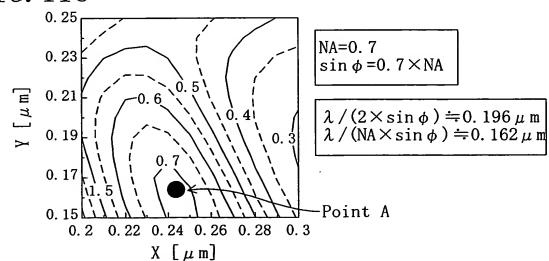
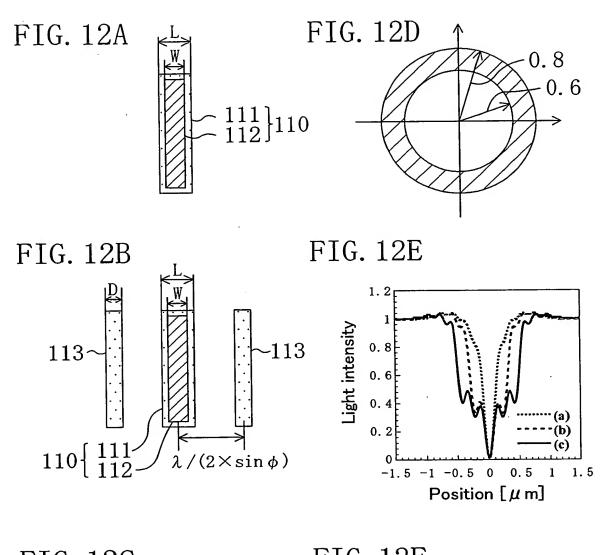


FIG. 11C





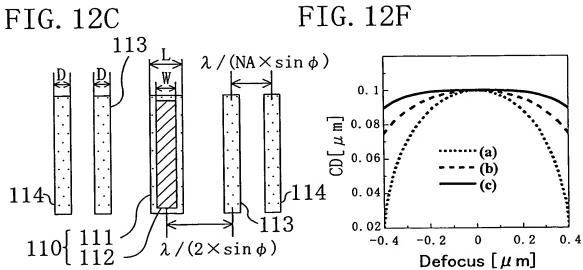
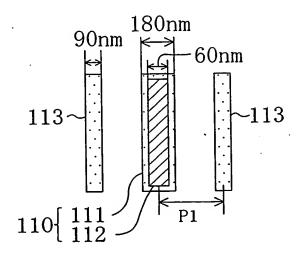


FIG. 13A

FIG. 13B



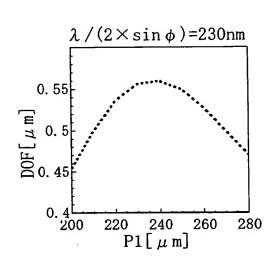
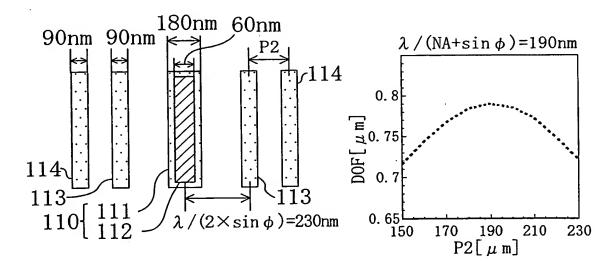
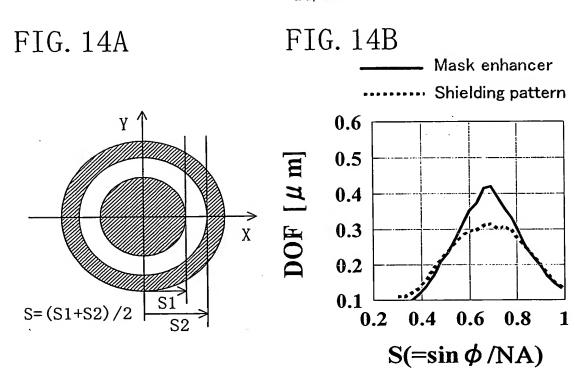


FIG. 13C

FIG. 13D





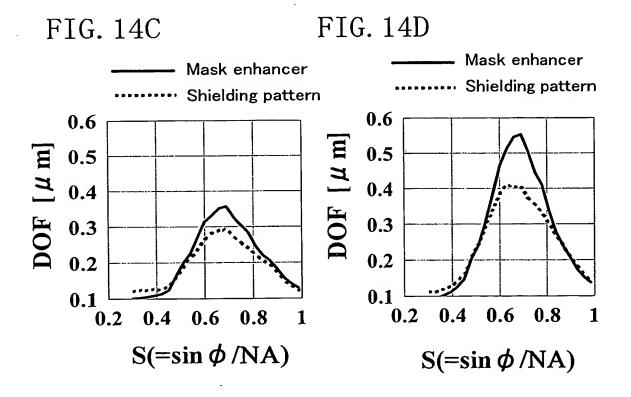


FIG. 15B FIG. 15A Mask enhancer Shielding pattern Y 1 DOF [\mu m] 0.8 0.6 0.4 0.2 L 0.2 S=(x1+x2)/20.4 0.6 0.8 1 $S(=\sin \phi/NA)$

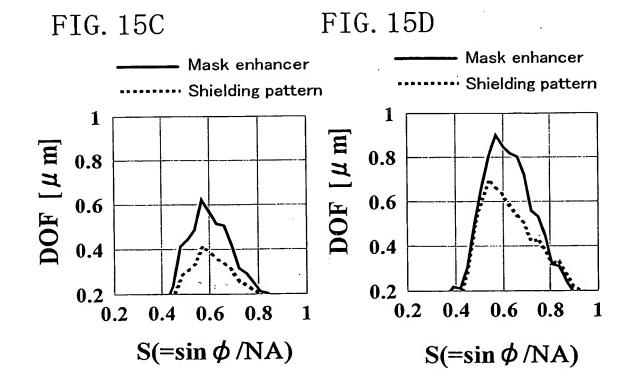
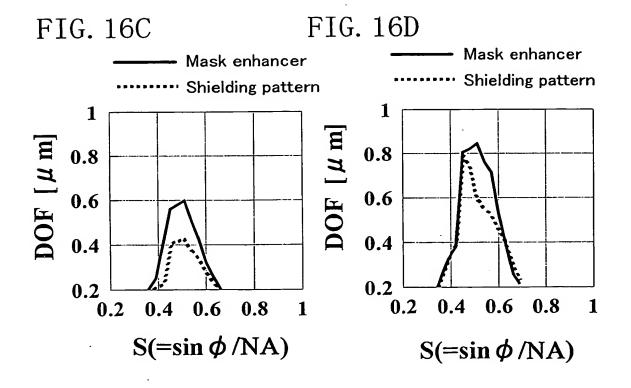


FIG. 16B FIG. 16A .Mask enhancer Shielding pattern 1 DOF [\mu m] 0.8 \overrightarrow{X} 0.6 0.4 S=(x1+x2)/20.2 0.8 0.4 0.6 0.2 1 $S(=\sin \phi/NA)$



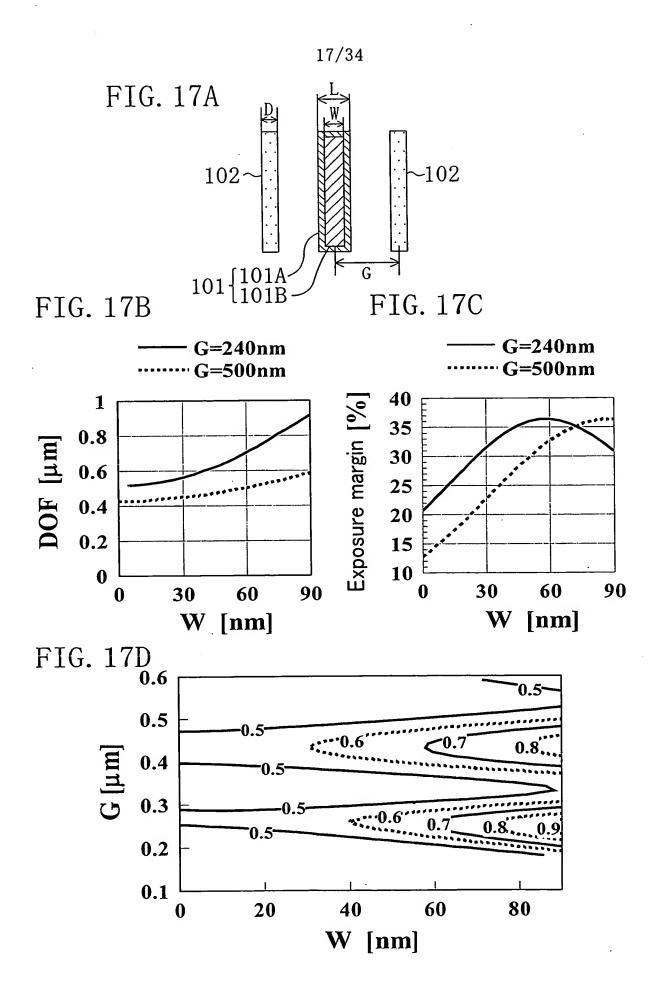


FIG. 18A

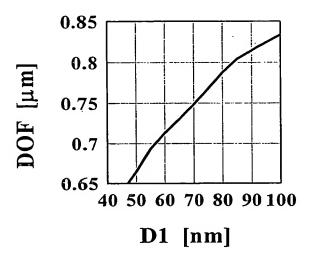


FIG. 18B

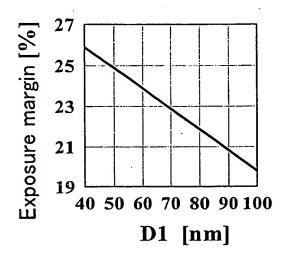


FIG. 18C

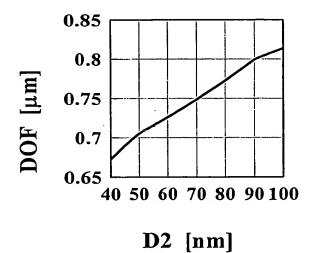


FIG. 18D

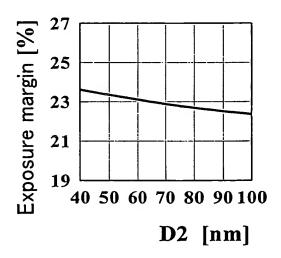


FIG. 19

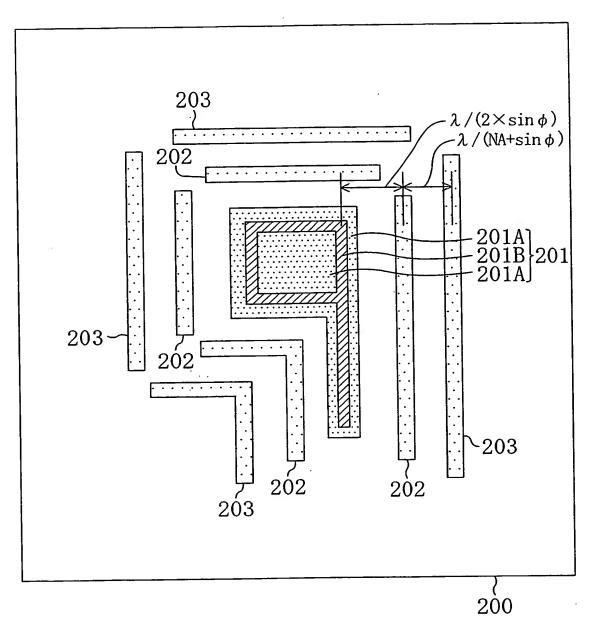


FIG. 20A

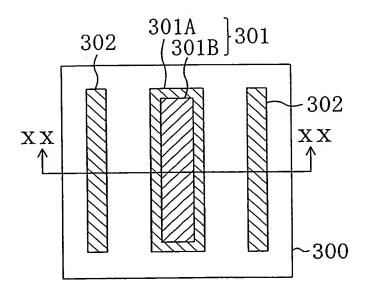
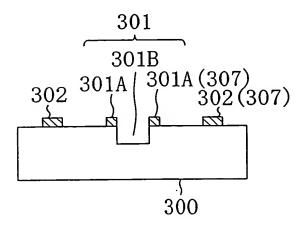
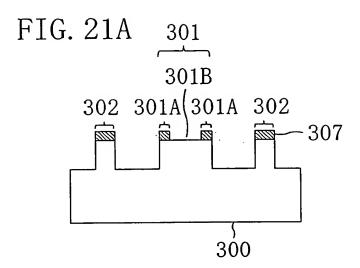
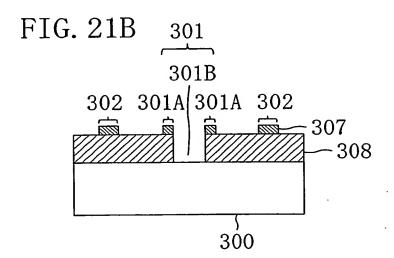


FIG. 20B







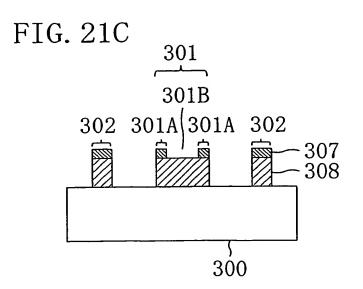


FIG. 22

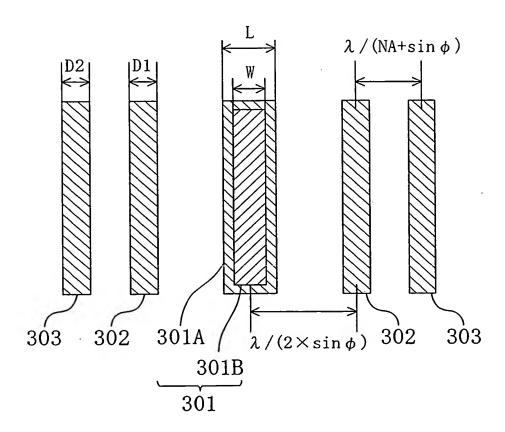
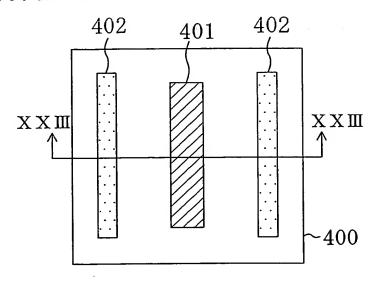


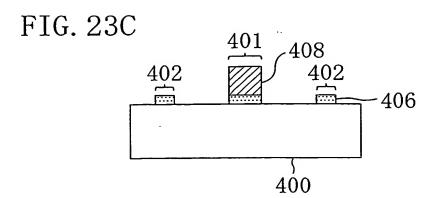
FIG. 23A

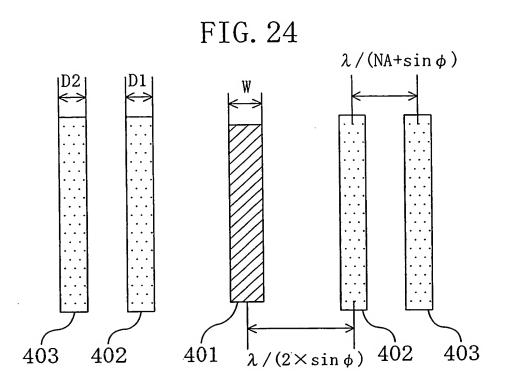


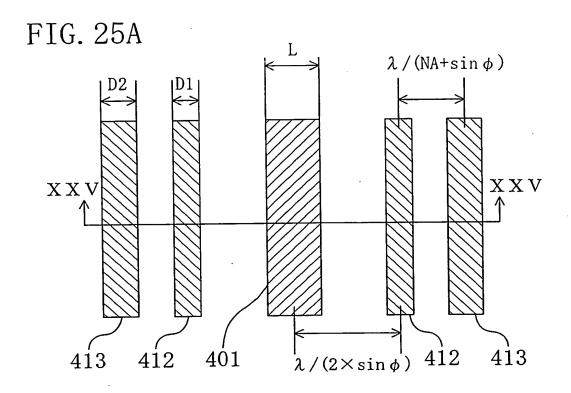
402

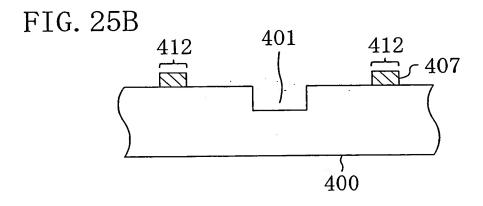
400

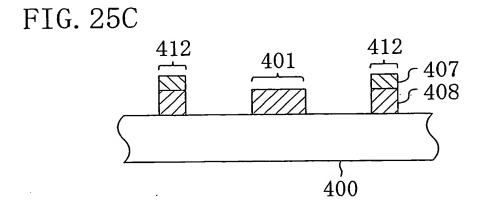
FIG. 23B

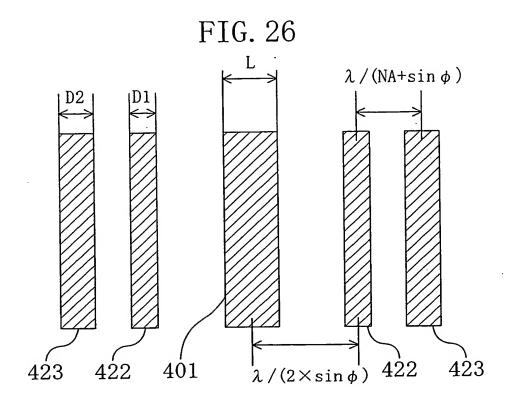


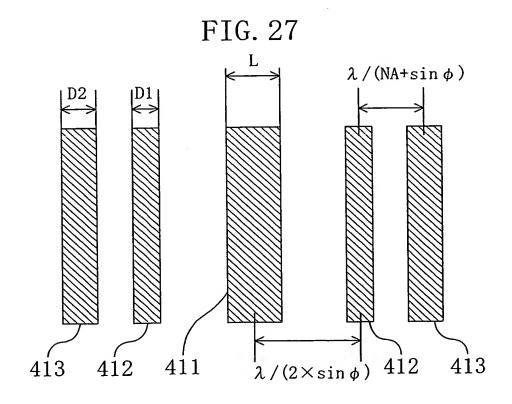












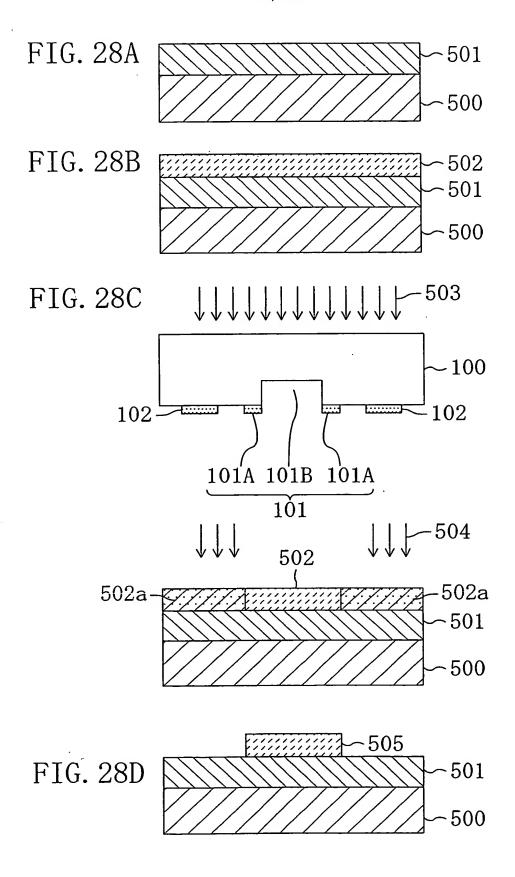
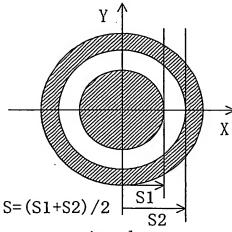
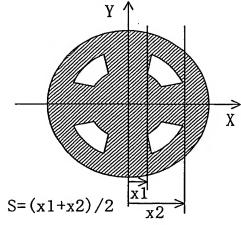


FIG. 29A



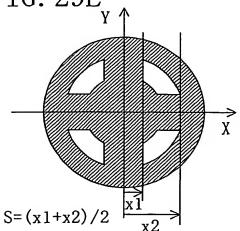
Annular illumination

FIG. 29C



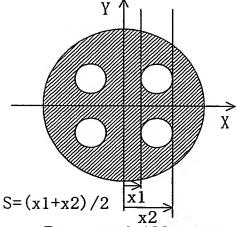
Four-eyed illumination (Quadrupole illumination)

FIG. 29E



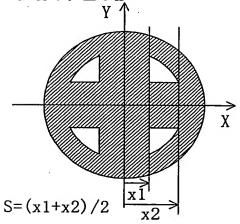
Four-eyed illumination (Quadrupole illumination)

FIG. 29B



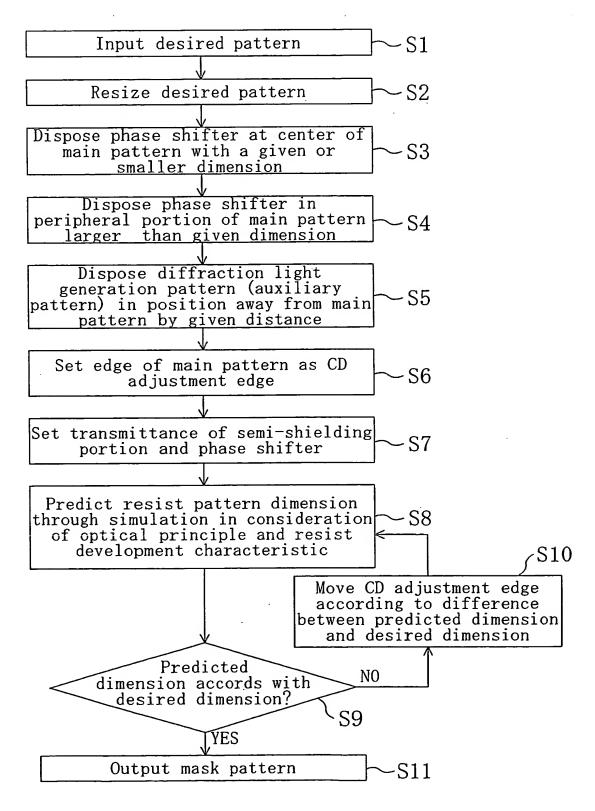
Four-eyed illumination (Quadrupole illumination)

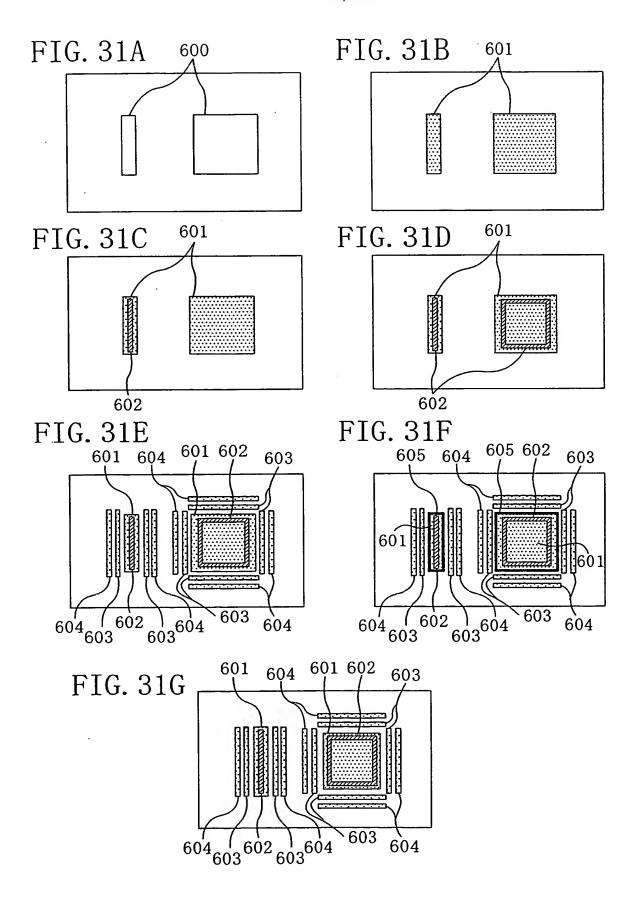
FIG. 29D

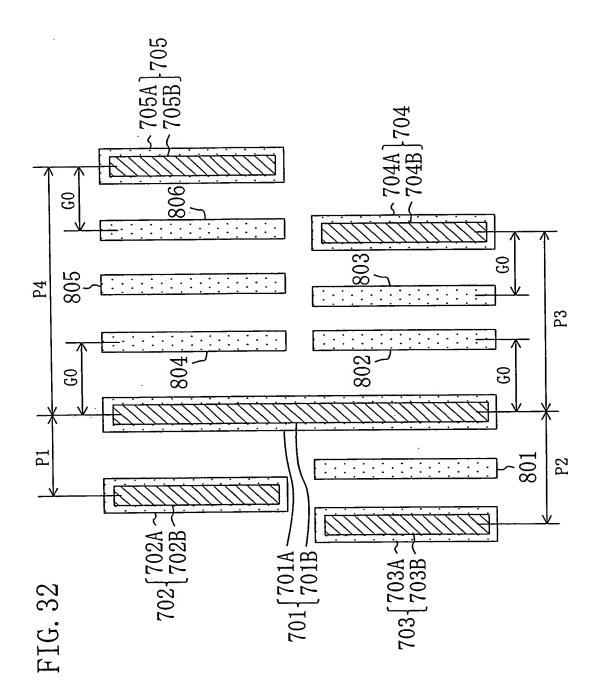


Four-eyed illumination (Quadrupole illumination)

FIG. 30







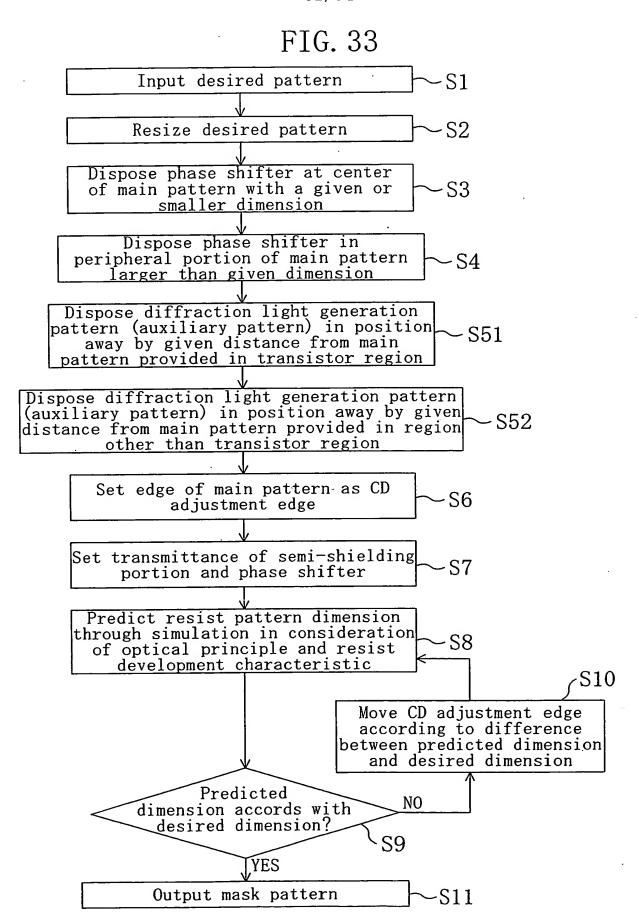


FIG. 34

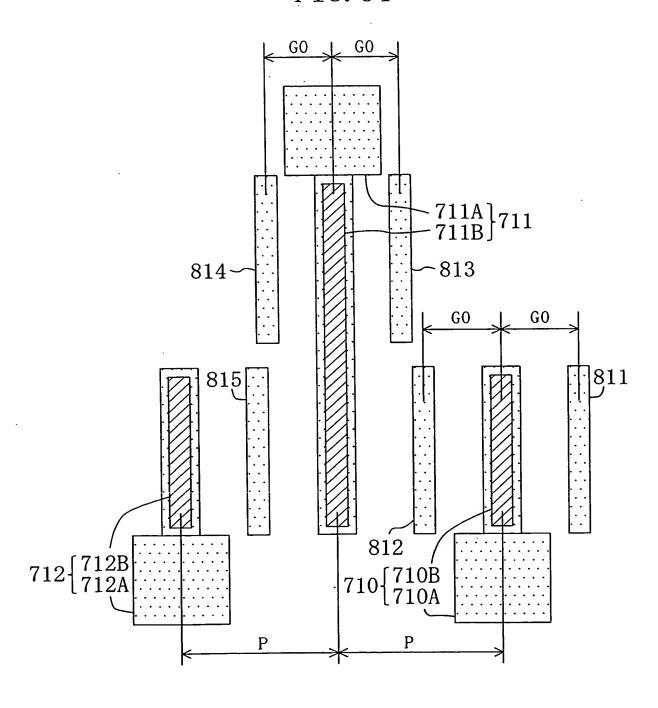


FIG. 35 PRIOR ART

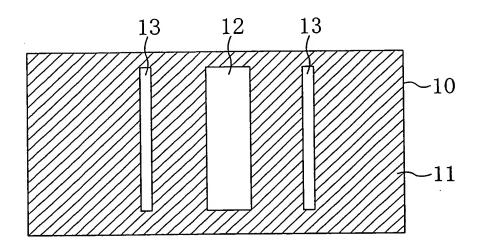


FIG. 36
PRIOR ART

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—20

—20